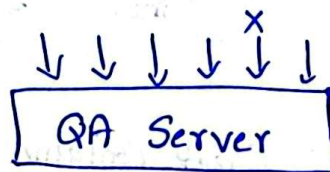
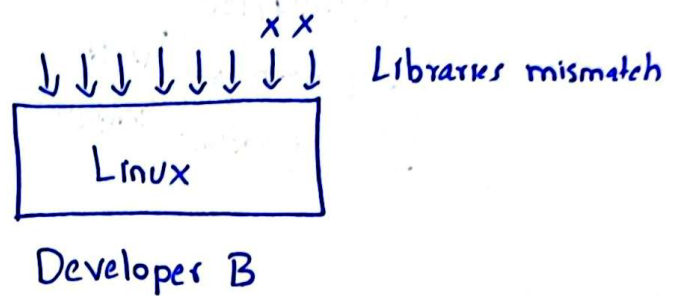
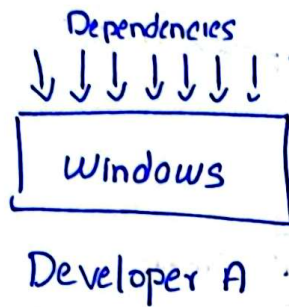


# Docker

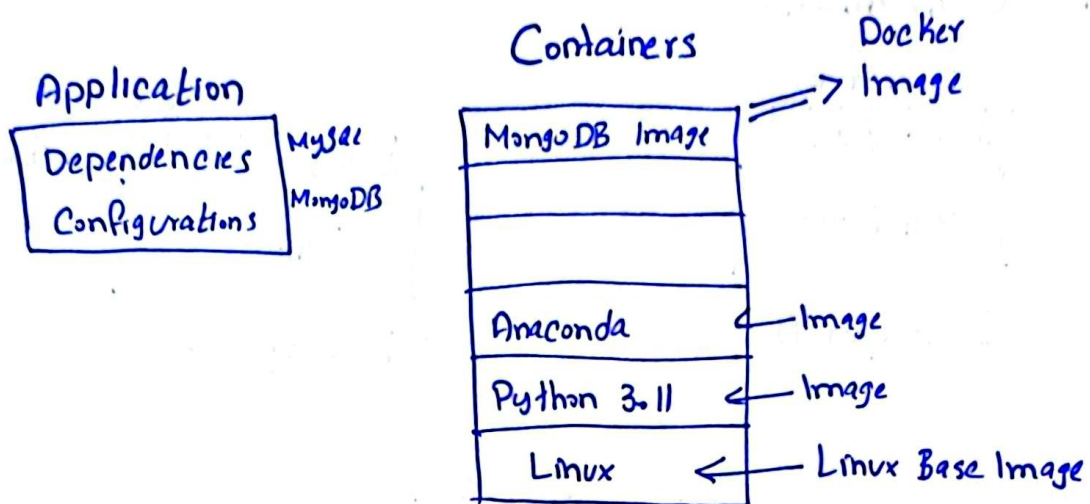
## → Why Containers



## Containers

- A way to package applications with all necessary dependencies and configuration
- It is a portable artifact, easily share and move this package to any environment
- This makes development and deployment more easy and efficient

# → Docker Image and Containers



Docker Image  $\xrightarrow{\text{Run}}$  Create Container

## Docker Image

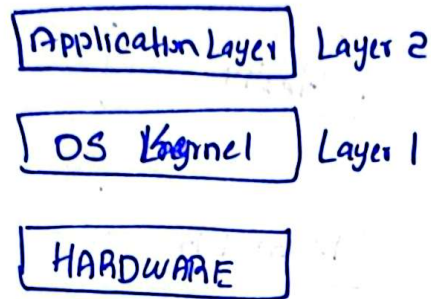
- ① Package or Artifact
- ② Move or share this artifact

## Container

- ① Docker Image → run
- ② Start the application
- ③ Create the container  
↓  
environment

# → Docker vs Virtual Machines

## Operating System

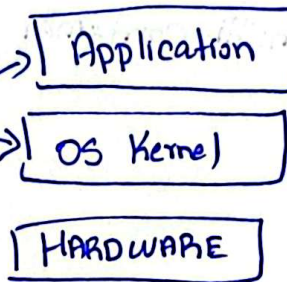


## Dockers



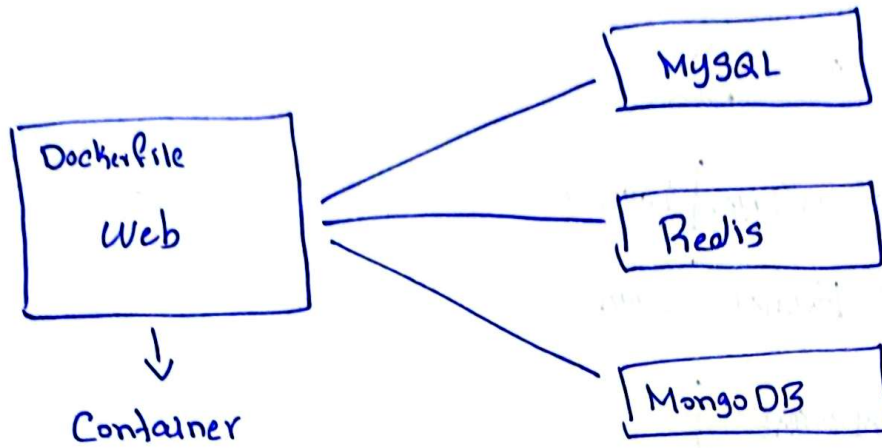
Docker Image

## VMs



- Docker Image size is smaller
- Contains start and run faster
- Compatibility issues
- Size is huge
- Comparatively slower
- Install any OS on VM

## → Docker Compose



Docker compose is a tool for defining and running multi-container Docker applications